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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/575,573

04/11/2006

Johannus Wilhelmus Weekamp

NL031275US1

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09/19/2008

PHILIPS INTELLECTUAL PROPERTY & STANDARDS

P.O. BOX 3001

BRIARCLIFF MANOR, NY 10510

EXAMINER

WILLIAMS, ALEXANDER O

ART UNIT

PAPER NUMBER

2826

MAIL DATE

DELIVERY MODE

09/19/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/575,573	Applicant(s) WEEKAMP ET AL.	
	Examiner Alexander O. Williams	Art Unit 2826	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 9/10/08.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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Serial Number: 10/575573 Attorney's Docket #: NL031275US1

Filing Date: 4/11/2006;

Applicant: Weekamp et al.

Examiner: Alexander Williams

Applicant's Amendment filed 9/10/08 has been acknowledged.

Claims 14 and 15 have been cancelled.

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-13 and 16 are rejected under 35 U.S.C. § 102(b) as being anticipated by Akram et al. (U.S. Patent # 6,013,948).

1. Akram et al. (figures 1 to 10) specifically figure 1 show a device provided with a body of an electrically insulating material **12** having a first side and, opposite thereto, a second side, electric conductors comprises first **22**, second (**inside layer of 26**) and third (**bottom of 26**) layers, wherein the electrically insulating material extends into cavities **11** between pattern in the second layer to mechanically anchor the electric conductors in the body on the first side, wherein: the body is provided with a recess **18** extending completely from the first side to the second side, and a sectional area of the recess on the second side **16** is larger than a sectional area of the recess on the first side of the device.

2. The device as claimed in claim 1, Akram et al. characterize in that at least a number of electric conductors comprise interconnect portions and bonding pad portions, which bonding pad portions have a larger diameter than the interconnect portions and are ordered such that they are suitable for electric coupling with an electric element arranged on the first side.

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3. The device as claimed in claim 2, Akram et al. characterize in that the bonding pad portions of the conductors are arranged in at least a circle around the recess, in such a manner that the electric element can be attached in a flip-chip orientation to the bonding pad portions by means of connecting means.

4. The device as claimed in claim 1, Akram et al. characterize in that the recess is truncated pyramid.

5. The device as claimed in claim 1, Akram et al. characterize in that a further electric element is embedded in the body, which element is electrically coupled to a number of the electric conductors.

6. The device as claimed in claim 2, Akram et al. characterize the bonding pad portions being present in the third layer.

7. The device as claimed in claim 1, Akram et al. characterize in that the body comprises a first part, a second part and a third part, wherein the recess is situated in the first part, and the third part is situated between the first part and the second part, and is bent such that the second part extends substantially parallel to the first part, wherein an electric element can be placed on the second part on the first side, such that a surface of the element is accessible via the recess in the first part.

8. The device as claimed in claim 1, Akram et al. characterize in that the body comprises a first part, a fourth part and a fifth part, wherein the recess is situated in the first part,

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and the fifth part is situated between the first part and the fourth part, and is bent such that the fourth part extends substantially parallel to the first part, which first and fourth parts enclose a channel which connects to the recess and is suitable for transporting a fluid.

9. The assembly of the device, as claimed in claim 1, Akram et al. show an electric element **14**, which electric element is attached to the first side of the device in a manner such that a surface of the element is accessible via the recess in the body.

10. The assembly as claimed in claim 9, Akram et al. characterize in that also contact faces are situated at the surface of the element, which contact faces are electrically connected to conductors on the first side of the device by means of connecting means, said contact faces and the portions of the conductors connected thereto being situated opposite each other and being separated from the part of the surface reached via the recess.

11. The assembly as claimed in claim 9, Akram et al. further provided with a lid on the second side of the device, the lid and the device enclosing a channel which connects to the recess and is suitable for the transport of a fluid.

12. A sub-assembly of a device as claimed in claim 1, Akram et al. comprises an electric element **14** coupled to the first side, such that a functional portion of a surface of the electric element is accessible via the recess, and a lid including a channel extending between first and second connections and

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coupled to the second side of the device, the lid and the device thereby enclosing the channel which further connects to the recess and which is suitable for the transport of a fluid into the recess between the first and second connection.

13. The sub-assembly as claimed in claim 12, Akram et al. characterize in that a plurality of individual devices and corresponding lids are present, which can be separated into individual units in a joint separating step.

16. The device as claimed in claim 1, Akram et al. show characterized in that a diameter of the recess decreases from the second side in the direction of the first side.

Response

Applicant's arguments filed 9/10/08 have been fully considered, but are moot in view of the new grounds of rejections detailed above.

The listed references are cited as of interest to this application, but not applied at this time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O. Williams whose telephone number is (571) 272 1924. The examiner can normally be reached on M-F 6:30AM-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on (571) 272 1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AOW
9/20/2008

/Alexander O Williams/
Primary Examiner, Art Unit 2826